

1. (Amended) A tire vulcanizing equipment comprising:  
a vulcanizing station having placing parts for placing tire mold assemblies movable in a closed state and a housing shelf vertically having plural stages of the placing parts;  
an opening and closing station having a placing part for placing the tire mold assembly, an opening and closing device for opening and closing the tire mold assembly placed on the placing part of the opening and closing station, a carrying-out device for carrying a vulcanized tire from the tire mold assembly and a carrying-in device for carrying an unvulcanized tire to the tire mold assembly; and  
a transfer station for transferring the tire mold assembly between a selected stage of the placing parts of the housing shelf and the placing part of the opening and closing station by a rising and falling action along the housing shelf of the vulcanizing station.

2. (Amended) A tire vulcanizing equipment comprising:  
a vulcanizing station having a housing shelf vertically having plural stages of placing parts for placing tire mold assemblies movable in closed state, which have pipings for supplying and discharging a vulcanizing/heating medium to the tire mold assemblies placed thereon;

an opening and closing station having a placing part for placing a tire mold assembly, an opening and closing device for opening and closing the tire mold assembly placed on the placing part of the opening and closing station, a carrying-out device for carrying a vulcanized tire from the tire mold assembly and a carrying-in device for carrying a unvulcanized tire to the tire mold assembly, the opening and closing station being connected to a carrying-out line of vulcanized tires to a following step and a carrying-in line of unvulcanized tires; and

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a transfer station for transferring the tire mold assembly between the placing part of a selected stage of the housing shelf and the placing part of the opening and closing station by a rising and falling action along the housing shelf of the vulcanizing station.

3. (Amended) A tire vulcanizing equipment according to claim 1, further comprising:

an auxiliary station having a placing part for placing the tire mold assembly and an opening and closing device for opening and closing the tire mold assembly placed on the placing part of the auxiliary station.

4. (Amended) A tire vulcanizing equipment according to claim 1, wherein the opening and closing station is connected to a carrying-out line of vulcanized tires to a following step and a carrying-in line of unvulcanized tires.

5. (Amended) A tire vulcanizing equipment according to claim 3, wherein the auxiliary station has a carrying-out device for carrying vulcanized tires from the tire mold assembly and a carrying-in device for carrying unvulcanized tires to the tire mold assembly.

6. (Amended) A tire vulcanizing equipment according to claim 3, wherein the auxiliary station is connected to a carrying-out line of vulcanized tires to a following step and a carrying-in line of unvulcanized tires.

8. (Amended) A tire vulcanizing equipment according to claim 1, wherein the transfer station has a rising and falling transfer device comprising a first delivering mechanism capable of delivering the tire mold assembly and switching the guide direction of the tire mold assembly to a selected placing part direction, a placing part for placing the tire mold assembly received by the first delivering mechanism, and a lifting mechanism for

raising and lowering the first delivering mechanism and the placing part of the rising and falling transfer device along the housing shelf.

13. (Amended) A tire vulcanizing equipment according to claim 11, wherein two or more of said plurality of said circularly arranged placing parts are arranged in a row, and are mutually connected through guide rails allowing the movement of the tire mold assembly therebetween.

14. (Amended) A tire vulcanizing equipment according to claim 11, wherein the transfer station comprises a delivering mechanism for delivering the tire mold assembly and a turntable rotatable so as to set the guide direction of the tire mold assembly by the delivering mechanism to the direction of a selected circularly arranged placing part.

15. (Amended) A tire vulcanizing equipment comprising:  
a vulcanizing station having a housing shelf having plural stages of placing parts for placing tire mold assemblies movable in a closed state, which have pipings for supplying and discharging a vulcanizing/heating medium to the tire mold assemblies placed thereon;  
an opening and closing station having a placing part for placing the tire mold assembly, an opening and closing device for opening and closing the tire mold assembly placed on the placing part of said opening and closing station, a carrying-out device for carrying a vulcanized tire from the tire mold assembly, and a carrying-in device for carrying a unvulcanized tire to the tire mold assembly, the opening and closing station being connected to a carrying-out line of vulcanized tires to a following step and a carrying-in line of unvulcanized tires; and

a transfer station for performing the transfer of the tire mold assembly between a selected stage of the placing parts of the housing shelf and the placing part of the opening and